

COMTEC ZDR035

COMTEC ZDR035 Dual Camera Full HD Drive Recorder

USER MANUAL

1. INTRODUCTION

This manual provides comprehensive instructions for the COMTEC ZDR035 dual camera Full HD drive recorder. It covers product features, installation, operation, maintenance, and troubleshooting. Please read this manual thoroughly before using the device to ensure proper and safe operation.



Image 1.1: COMTEC ZDR035 Front and Rear Dash Cam units.

2. KEY FEATURES

The COMTEC ZDR035 is equipped with advanced features designed to enhance driving safety and provide reliable recording:

- **Dual Camera Recording:** Records both front and rear views simultaneously in Full HD.
- **STARVIS Technology:** Enhances image clarity in low-light conditions, such as at night or in tunnels.
- **Ultra-Wide-Angle Lenses:** Captures a broad field of view (168° diagonal) for comprehensive coverage.
- **Safety Driving Support Functions:** Includes alerts for rear vehicle approach, forward vehicle start, front traffic signal, rapid acceleration/deceleration/steering, and vehicle speed.
- **Parking Surveillance Mode:** Monitors your vehicle for impacts or continuous recording while parked (requires optional accessory).
- **HDR/WDR:** Provides clear images by compensating for brightness differences, reducing whiteout and black crush.
- **SD Card Data Protection:** Features a proprietary file system and super capacitor to minimize data corruption and ensure high recovery rates.
- **Noise Countermeasures:** Designed to prevent interference with terrestrial digital TV and car navigation GPS signals.



Image 2.1: Overview of ZDR035 key features including dual cameras, STARVIS, and GPS.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. It is recommended to have the device professionally installed. If self-installing, ensure the following:

1. **Mounting Location:** Mount the front camera on the windshield where it does not obstruct the driver's view. The rear camera should be mounted on the rear window.
2. **Power Connection:** Connect the power cable to the vehicle's power source according to the instructions provided in the separate installation guide.
3. **Camera Connection:** Connect the front and rear cameras using the supplied camera cable.
4. **SD Card Insertion:** Insert the microSDHC card into the main unit.

The device uses an adhesive mounting type for secure attachment.



Image 3.1: Illustration of the 168-degree wide-angle coverage for both front and rear cameras.

4. OPERATING INSTRUCTIONS

4.1. Recording Functions

- **Continuous Recording:** Automatically records from engine ON to OFF. Recording time varies based on settings. Older files are overwritten when the card is full.
- **Impact Recording:** When the built-in G-sensor detects an impact, the relevant footage is saved as protected data.
- **Manual Recording:** Press the designated switch to manually record and protect footage at any time.

4.2. Safety Driving Support Functions

These functions provide alerts to assist safe driving. They are not accident prevention systems.

- **Rear Vehicle Approach Alert:** Detects vehicles approaching from the rear and provides an audible or alarm alert. Can automatically save footage of the event.
- **Forward Vehicle Start Alert:** Notifies you when the vehicle ahead begins to move.
- **Front Signal Alert:** Alerts you when a traffic light ahead turns green.
- **Drive Support Function:** Detects and alerts for sudden acceleration, deceleration, or steering.
- **Vehicle Speed Alarm:** Alerts you if your vehicle exceeds a preset speed.



Image 4.1: Illustration of the Rear Vehicle Approach Alert function.

4.3. Advanced Imaging Features

- **STARVIS Night Vision:** Both front and rear cameras utilize Sony's STARVIS CMOS sensor for clear recording in dark environments.
- **HDR/WDR:** High Dynamic Range (HDR) and Wide Dynamic Range (WDR) functions ensure clear images in varying light conditions, such as strong backlight or sudden changes in brightness. (Rear camera supports HDR only).
- **LED Traffic Light Compatibility:** Records reliably across different power frequencies in Japan (East/West).



Image 4.2: Comparison of night recording with and without STARVIS technology.

4.4. Parking Surveillance Functions

Requires the optional HDROP-14 direct wiring cord.

- **Impact Quick Recording:** Records when an impact is detected while parked, minimizing power consumption.
- **One-Time Parking Surveillance Mode:** Temporarily activates parking surveillance even if the main function is off.
- **Parking Surveillance Mode Pass:** Temporarily disables parking surveillance in environments prone to false triggers (e.g., mechanical parking lots, windy conditions).
- **Time-Lapse Recording:** Records still images at 1-second intervals, compressing them into a short video for extended parking surveillance.



Image 4.3: Diagram illustrating parking surveillance features, including impact detection and recording.

4.5. Data Protection Features

- **Backup Function:** A proprietary file system and super capacitor protect recorded data from corruption in case of sudden power loss.
- **SD Card Check Function:** The device checks the microSDHC card at startup and alerts you via an LED indicator if damage is detected, preventing missed recordings.
- **Emergency Recording Stop Function:** Automatically stops recording after a significant impact to prevent important accident footage from being overwritten.

4.6. Convenience Features

- **High-Speed Start Recording:** Recording begins immediately after the engine is turned ON.
- **Recorded Image Rotation:** The built-in G-sensor automatically adjusts image orientation, allowing flexible mounting.
- **Audio Recording:** Records audio along with video.
- **Date and Time Information:** Records date and time data with footage.

5. MAINTENANCE

The COMTEC ZDR035 utilizes a proprietary file system that significantly reduces SD card fragmentation, thereby minimizing the need for frequent manual formatting. However, it is good practice to periodically check the SD card's health using the device's built-in SD Card Check Function.

6. TROUBLESHOOTING

- **No Recording:** Check if the SD card is inserted correctly and is not damaged. The SD Card Check Function will alert you if there's an issue.
- **Function Malfunction:** Some functions, particularly safety support features, may not operate correctly if GPS reception is poor or unavailable, or due to environmental factors (weather, vehicle ahead's shape/color, mounting position).
- **Noise Interference:** The device includes noise countermeasures to prevent interference with other vehicle electronics. If interference occurs, ensure proper installation and grounding.
- **Impact Detection Sensitivity:** The impact detection sensitivity for features like Impact Recording and Emergency Recording Stop can be adjusted in 11 levels (including OFF) via the device settings.

7. SPECIFICATIONS

Feature	Detail
Brand	COMTEC
Model Name	ZDR035
Product Dimensions (L x W x H)	9.2 x 3.2 x 5.2 cm
Product Weight	600 g
Battery	1 Lithium Metal battery (included)
Special Features	Built-in GPS, Night Vision
Color	Black
Compatible Vehicle Type	Car
Video Capture Resolution	1080p (Full HD)
Mounting Type	Adhesive
Field of View	168 degrees (diagonal)
Control Method	Touch



Image 7.1: Diagram showing the dimensions of the COMTEC ZDR035 main unit.

8. WARRANTY AND SUPPORT

8.1. Warranty Information

The COMTEC ZDR035 comes with a **3-year warranty** from the date of purchase. Please retain your proof of purchase (e.g., delivery note) as it is required for warranty claims. The warranty is not applicable for use outside Japan or without valid proof of purchase.

サイズ

ドライブレコーダーはフロントガラスに取り付けるため、取付位置によっては視界の妨げになりかねません。本体サイズがコンパクトなモデルや本体とカメラが分離したセパレートモデルでは視界の妨げになりにくく、スッキリした取り付けが可能です。

高さ (H)

奥行 (D)

幅 (W)

ZDR055	ZDR045	ZDR043	ZDR036	ZDR035
W:92.4mm H:58.9mm D:28.5mm	W:96mm H:55.5mm D:28.9mm	W:67mm H:49.3mm D:30.9mm	W:73mm H:33mm D:24.2mm	W:92.4mm H:52.1mm D:31.8mm

●サイズはすべてフロントカメラのサイズを記載しています。

Image 8.1: Illustration indicating the 3-year product warranty.


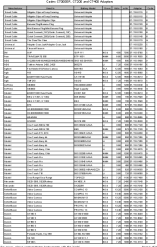
8.2. Viewer Software

A dedicated viewer software is available for download from the official COMTEC website. This software allows you to review recorded footage, audio, and G-sensor data on your computer. You can also convert recorded data into video or still images for saving.

For further support or inquiries, please visit the official COMTEC website or contact customer service.

Related Documents - ZDR035

	<p>COMTEC ZDR-015</p> <p>COMTEC ZDR-015</p>
	<p>Swissbit iShield Archive Card Compatibility List</p> <p>This document provides a comprehensive compatibility list for various devices, including dashcams, drones, photo cameras, action cameras, trail cameras, video cameras, and cellphones, with Swissbit iShield Archive Cards. It details the maker, model, and confirms full compatibility for each listed item.</p>
	<p>COMTEC ZDR-015</p> <p>COMTEC ZDR-015</p>

	<p>CTI PLA-800 Linear Amplifier and PSL 1000 Power Supply User Manual</p> <p>Comprehensive user manual for the CTI PLA-800 Linear Amplifier and PSL 1000 Power Supply, detailing safety precautions, introduction to components, tuning procedures, power changeover, parts lists, warranty information, and return procedures.</p>
	<p>Cadex C7000ER, C7200, C7400 Adaptor Compatibility Guide</p> <p>Explore the Cadex C7000ER, C7200, and C7400 adaptor compatibility list, featuring a comprehensive breakdown of manufacturers, battery models, and compatible devices for efficient power management.</p>

Documents - COMTEC – ZDR035



[\[pdf\]](#) User Manual

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COMTEC ドライブレコーダー総合カタログ 2022.07

**5年連続 ドライブレコーダー
販売数量 No.1**

WDCN AWARD 2018 2019 2020 2021 2022 ドライブレコーダー部門において最優秀賞を受賞
総代理店総研計調査会社 GICN 販売数量 No.1 (累計対象期間：2017 年 1 月～2021 年 12 月)

コムテック史上、最商品質。さらに進化したハイスペックモデル登場

ZDR059 
360°カメラ+リヤカメラ搭載
通信機能搭載
リヤカメラ STARVISTM 搭載

ZDR036 
WQHD 570万画素
新機 STARVISTM 搭載
ドッグランモニター採用超広域
超長寿命機能搭載

ZDR017 
コンパクトボディ
新機カメラ モニターモデル

データ復旧サービス
コムテック全機種 1年間無料 業界初

Line up
3.5インチカメラ：ZDR007 / HDZ001CW / HDZ001C
前後2カメラ：NEW ZDR005L (mini) / ZDR005L (1+1) / ZDR005 / HDZ005CW / ZDR016
前後1カメラ：HDZ004G / NEW HDZ004

[pdf] Catalog

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360 360 STARVISTM 360 ZDR059 460 HDR / WDR 200 HDR ZDR059 7 2

STARVISTM G ... // Pickup 3 HDROP-14 120 2m 4m microSD 7 2 STARVISTM GPS

ZDR035 200 HDR / WDR 200 HDR **ZDR035** 7 2 2 GPS ZDR017 200 HDR / WDR

200 ...

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